



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

## BIB DATA SHEET

CONFIRMATION NO. 1396

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS 382 706 /NHB/	GROUP ART UNIT 2129	ATTORNEY DOCKET NO. 1365.105US1
10/578,659				

**APPLICANTS**

Euan Christopher Smith, Cambridgeshire, UNITED KINGDOM;  
 Paul Richard Routley, Cambridge, UNITED KINGDOM;  
 Clare Louise Foden, Cambridge, UNITED KINGDOM;

**\*\* CONTINUING DATA \*\*\*\*\***

This application is a 371 of PCT/GB05/50219 11/30/2005

**\*\* FOREIGN APPLICATIONS \*\*\*\*\***

UNITED KINGDOM 0428191.1 12/23/2004

**\*\* IF REQUIRED, FOREIGN FILING LICENSE GRANTED \*\***

08/14/2008

Foreign Priority claimed	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Met after Allowance	STATE OR COUNTRY UNITED KINGDOM	SHEETS DRAWINGS 12	TOTAL CLAIMS 36 /NHB/	INDEPENDENT CLAIMS 5
35 USC 119(a-d) conditions met	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

**ADDRESS**

SCHWEGMAN, LUNDBERG & WOESSNER, P.A.  
 P.O. BOX 2938  
 MINNEAPOLIS, MN 55402  
 UNITED STATES

**TITLE**

A METHOD OF DRIVING A DISPLAY USING NON-NEGATIVE MATRIX FACTORIZATION TO DETERMINE A PAIR OF MATRICES FOR REPRESENTING FEATURES OF PIXEL DATA IN AN IMAGE DATA MATRIX AND DETERMINING WEIGHTS OF SAID FEATURES SUCH THAT A PRODUCT OF THE MATRICES APPROXIMATES THE IMAGE DATA MATRIX

<b>FILING FEE RECEIVED</b> 2850	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees
		<input type="checkbox"/> 1.16 Fees (Filing)
		<input type="checkbox"/> 1.17 Fees (Processing Ext. of time)
		<input type="checkbox"/> 1.18 Fees (Issue)
		<input type="checkbox"/> Other _____
		<input type="checkbox"/> Credit